

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

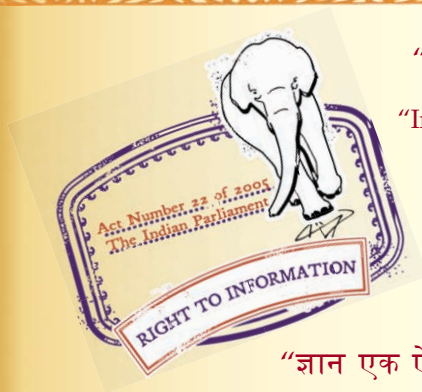
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

SP 1650 (1973): Standard colours for building and decorative finishes (with supplement) [CED 13: Building Construction Practices including Painting, Varnishing and Allied Finishing]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



SP : 1650 - 1973
(Reaffirmed 2000)

**STANDARD COLOURS
FOR
BUILDING AND DECORATIVE
FINISHES**

(First Reprint May 1985)

UDC 667-12 : 698.1



© Copyright 1973

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Price Rs 120⁰⁰

July 1973

STANDARD COLOURS FOR BUILDING AND DECORATIVE FINISHES

0. FOREWORD

0.1 Colours for building finishes are spread over a wide range; in addition, the colours are influenced by the material of the finish, which may be paint, distemper, tiles, hard-boards, etc. The variety of finishes coupled with the wide range of colours has made the selection of a colour or a complete colour scheme a difficult matter for both the architect and the interior decorator. Moreover, the selection of colours does not always lead to the procurement of the right materials having the required colours. Hence, agreement in regard to a definite range of colours covering the normal requirements of finishing and decorative work in buildings, together with the information as to the colours in which each material is available, will greatly facilitate the choice of colours and the design of colour schemes. As a first step towards this, a range of colours covering different types of building finishes has been prepared and this colour range will give the necessary guidance in fixing colours of different finishing materials. The colour range will also enable one to correlate the colours of various types of finishing materials which have hitherto been selected by independent colour charts. The glossary of colour terms used for decorative purposes in buildings is given in Appendix A as an additional feature of the first revision in the supplement to this standard. The salient features of this standard are also briefly explained in Appendix B in the supplement.

0.2 Further work in this direction will involve the indication of the different colours in which the finishing materials will be manufactured. This part of the work will be covered in the various specifications for building materials which will, in due course, be correlated with this standard. IS: 5-1961 'Colours for ready mixed paints (*second revision*)' covers the colours for paints; and the possible correlation of colours (near equivalents) between IS: 5-1961 and this standard has been indicated in Appendix C.

0.3 The range of colours for building finishes has been included in a series of standard colour cards which can be used to indicate the colour and appearance of the various parts of the building and other decorative finishes. The colour prints are produced in a semi-gloss finish for general visual indication of colours in daylight. When selecting colour schemes for buildings covering a range of different materials, it is important to keep in view the facts that certain materials are not available in the colours which are shown in the charts, and that the appearance of the colour is considerably influenced by the texture of the material and the incidence of light on the surface.

0.4 This standard was originally published as IS: 1650-1960. Now it is being published as SP: 1650-1973 and includes certain additional information which was not included in IS: 1650-1960, for the benefit of engineers, architects and decorators. The important features of this standard are as follows:

- a) All the colours given in this standard have been given names.
- b) Wherever possible, the colours of this standard have been correlated with the colours of IS: 5-1961. In other cases, the near equivalent of IS: 5-1961 colour has been indicated.
- c) A detailed glossary of colour terms has been included.

**CARE SHOULD BE TAKEN
NOT TO HANDLE THE COLOUR
PATCHES WHEN WITHDRAWING
CARDS**

SP: 1650 - 1973

0.5 This standard is based on BS 2660: 1955 'Colours for building and decorative paints', prepared by the British Standards Institution. The British Standard, however, applies to paints only, but it has the prospect of being used to organize the colour ranges for other building materials as well. It may be noted that the scope of this standard is enlarged to adopt it for all building finishes. In the preparation of this standard, assistance has been derived from BS 1611: 1953 'Glossary of colour terms used in science and industry'.

1. SCOPE

1.1 This standard covers the common range of colours applicable to building and decorative finishes.

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions of colour terms given in Appendix A shall apply.

3. SCHEME OF DIVISION OF COLOURS

3.1 The colours are divided into groups and, for convenience of comparison, reproduced on ten separate cards numbered 0 to 9. Card 0 contains the strong colours, and card 9 contains the greys. Intermediate cards show greyish colours on the left and fairly strong colours on the right, in eight hue groups as follows:

Card 1	red	Card 5	green-yellow
Card 2	yellow-red	Card 6	green
Card 3	yellow-red	Card 7	blue-green and blue
Card 4	yellow	Card 8	purple-blue and red-purple

With one or two exceptions, colours in each group are graded from light to dark from top to bottom of the card. Spaces have been allowed between colours in order to maintain an approximate regularity in the gradation of lightness in hue.

4. REFERENCE NUMBERS FOR COLOURS

4.1 The colours represented are numbered in sequence from 001 to 101 (white 102 and black 103 are not represented), these numbers being preceded by the card number, for example, 0-014, 6-072 and 9-101. These shall be used as SP: 1650-1973 numbers for identification of colours.

5. TYPES OF GLOSS-FINISH

5.1 It may not be possible to produce all the colours reliably in all types of gloss-finish. The letters adjacent to each colour specimen are intended to give general guidance on the main types of gloss-finish for which the colour is suitable. The final decision, however, shall remain a matter for agreement between the user and the supplier. The following letter symbols are used to denote the different types of surface finishes:

G	gloss
SG	semi-gloss or egg-shell
M	matt

6. 'MUNSELL' REFERENCES

6.1 Approximate 'Munsell' references are also given against each colour of this standard, quoted by the respective reference number. The IS number shall always be used for identifying a colour, and 'Munsell' references are given only as an aid to designers in comparing individual properties in terms of Hue, Value and Chroma. The 'Munsell' system of colours is briefly explained in Appendix B (see Supplement enclosed).

APPENDIX C

(Clause 0.2)

CORRELATION WITH IS : 5-1961

SP : 1650-1973 NUMBER	IS : 5-1961		REFLECTANCE	NAME OF COLOUR
	CORR No.	EQUIV No.		
(1)	(2)	(3)	(4)	(5)
0-001	309	—	65	Canary yellow
0-002	—	355	56	Lemon
0-003	356	—	42	Golden yellow
0-004	—	368	55	Traffic yellow
0-005	536	—	35	Fire red
0-006	538	—	28	Post office red
0-007	—	—	23	Jaipur red
0-008	—	—	56	Light chartreuse
0-009	—	—	42	Medium chartreuse
0-010	—	—	13	Emerald green
0-011	—	103	8	India blue
0-012	—	—	13	Nilgri blue
0-013	—	169	8	Traffic blue
0-014	—	—	10	Purple
1-015	—	—	73	Light rose
1-016	—	—	48	Lilac
1-017	—	—	33	Dark Lilac
1-018	—	449	12	Light purple brown
1-019	—	541	9	Maroon
1-020	—	—	64	Medium pink
1-021	—	—	58	Coral
1-022	—	—	48	Light copper rose
1-023	—	—	33	Copper rose
1-024	—	445	18	Venetian red
1-025	540	—	15	Crimson
2-026	—	—	71	Honeysuckle cream
2-027	—	—	45	Light coffee
2-028	—	—	31	Medium coffee
2-029	—	—	22	Dark coffee
2-030	—	—	64	Light fawn
2-031	—	443	53	Salmon pink
2-032	—	—	23	Nutmeg
3-033	—	—	83	Light magnolia
3-034	—	—	76	Medium magnolia
3-035	—	—	64	Pale mushroom
3-036	—	—	30	Dark oyster
3-037	—	—	25	Stone grey
3-038	—	—	11	Medium tamarind
3-039	451	—	6	Dark tamarind

APPENDIX C - *Contd*

SP : 1650-1973	IS : 5-1961		REFLECTANCE	NAME OF COLOUR
NUMBER	CORR No. EQUIV No.			
(1)	(2)	(3)	(4)	(5)
3-040	—	—	76	Light chandan
3-041	—	—	74	Dark chandan
3-042	—	386	65	Champagne
3-043	361	—	42	Light stone
3-044	414	—	22	Golden brown
3-045	411	—	14	Middle brown
4-046	—	—	83	Ivory
4-047	—	364	59	Portland stone
4-048	—	—	44	Dark portland stone
4-049	—	629	32	Quaker grey
4-050	—	—	15	Olive grey
4-051	—	279	8	Steel furniture green
4-052	—	352	78	Pale cream
4-053	—	—	81	Light yellow
4-054	—	353	76	Deep cream
4-055	—	397	73	Jasmine yellow
4-056	—	—	42	Sonf yellow
4-057	—	—	47	Haldi dull
5-058	—	365	61	Vellum
5-059	—	—	44	Light silver grey
5-060	—	628	32	Silver grey
5-061	—	223	9	Mid bronze green
5-062	—	—	56	Banana green
5-063	—	222	25	Light bronze green
5-064	—	278	19	Light olive green
5-065	—	219	12	Sage green
6-066	—	—	31	Light aircraft grey green
6-067	—	283	21	Aircraft grey green
6-068	—	—	6	Dark moss green
6-069	—	—	66	Light pastel green
6-070	—	—	65	Pastel green
6-071	216	—	38	Eau-de-nil
6-072	281	—	25	Apple green
6-073	—	267	7	Traffic green
6-074	226	—	6	Mid brunswick green
7-075	—	—	67	Sea mist
7-076	—	—	42	Ash grey
7-077	—	697	32	Middle admiralty grey

APPENDIX C — *Contd*

SP : 1650-1973	IS : 5-1961		REFLECTANCE	NAME OF COLOUR
NUMBER	CORR No. EQUIV No.			
(1)	(2)	(3)	(4)	(5)
7-078	631	—	32	Light grey
7-079	—	101	38	Sky blue
7-080	—	102	20	Turquoise blue
7-081	—	—	70	Light blue
7-082	—	—	51	Medium blue
7-083	—	—	40	Light oriental blue
7-084	—	174	27	Oriental blue
7-085	—	103	10	Peacock blue
7-086	—	105	6	Oxford blue
8-087	—	—	58	Light smoke grey
8-088	—	692	32	Smoke grey
8-089	—	—	29	Wedgewood
8-090	—	—	69	Pale lilac
8-091	—	—	39	Jaipur pink
8-092	—	—	11	Dark crimson
9-093	—	—	73	Silver birch
9-094	—	—	58	Light dove grey
9-095	—	694	44	Dove grey
9-096	—	—	29	Medium grey
9-097	632	—	15	Dark admiralty grey
9-098	633	—	7	R.A.F. blue grey
9-099	—	—	60	Light slate
9-100	—	—	26	Medium slate
9-101	—	634	15	Slate
9-102	—	—	—	White
9-103	—	—	—	Black

NOTE 1 — The number in col 2 under the heading 'Corr No.' (correlated number) indicates that the colours in IS : 5 and SP : 1650 series are matched as closely as possible within the limits of accuracy and reproducibility of the technical processes involved, and taking into account the different degrees of gloss.

The number in col 3 under the heading 'Equiv No.' (equivalent number) indicates that the individual colours issued in IS : 5 and SP : 1650 series are near equivalents and are not regarded as 'correlated' for the most accurate degree of colour matching. These are mainly for guidance.

NOTE 2 — Reflectance values given in col 4 have been obtained from spectrophotometric measurements made on a set of the large colour cards of this standard. The measurements were made with a recording spectrophotometer with reflectance attachment, the reflected light being compared with that from a smoked magnesium oxide screen under the same conditions of illumination and view.

COMPOSITION OF PAINTING, VARNISHING AND ALLIED FINISHES SECTIONAL COMMITTEE, BDC 34

Chairman

SHRI B. SHIRAZI

Members

SHRI N. S. BHARATIA

SHRI S. H. DESAI (*Alternate*)

SHRI C. J. BHUMKAR

SHRI T. K. S. MANI (*Alternate*)

SHRI S. K. BOSE

SHRI E. K. RAMACHANDRAN (*Alternate*)

SHRI P. K. CHAKRAVARTI

SHRI G. S. SAVKAR (*Alternate*)

SHRI K. R. CHANDRASHEKHAR

SHRI V. J. PATIL (*Alternate*)

CHEMIST AND METALLURGIST,

RESEARCH, DESIGNS AND

STANDARDS ORGANIZATION

SHRI B. CHOWDIAH

SHRI A. K. DAS GUPTA

DIRECTOR

SHRI Y. SANKARANARAYANAN (*Alternate*)

DR V. M. DOKRAS

SMT S. GURUSWAMY

SHRI O. P. KUMAR

SHRI V. V. SASIDARAN (*Alternate*)

SHRI HAZARI LAL MARWAH

SHRI K. P. MUKHERJEE

SHRI S. V. NATHAN

DR A. V. R. RAO

SHRI O. P. RATRA (*Alternate*)

SHRI B. S. RAWAT

SHRI P. B. SHAH

DR S. M. SINGH

DR R. K. SUD

SUPERINTENDING SURVEYOR OF
WORKS (SOUTH WESTERN ZONE),
BOMBAY

SURVEYOR OF WORKS I,

ATTACHED TO THE OFFICE
OF SSW (NEW DELHI ZONE)
(*Alternate*)

SHRI Y. S. SWAMY

SHRI R. NAGARAJAN,

Director (Civ Engg)

Representing

Cole Paints & Contracts Pvt Ltd, Bombay

Blundell Eomite Paints Ltd, Bombay

The Indian Paints Association, Calcutta

National Test House, Calcutta

Directorate General of Supplies & Disposals,
New Delhi

Central Water & Power Commission, New Delhi

Ministry of Railways

Ministry of Shipping & Transport, New Delhi

Public Works Department, Government of West
Bengal

Indian Lac Research Institute (ICAR), Ranchi

Institution of Engineers (India), Calcutta

Curzon & Co, Madras

Engineer-in-Chief's Branch, Army Headquarters

Central Builders' Association, New Delhi

National Metallurgical Laboratory (CSIR),
Jamshedpur

Goodlass Nerolac Paints Ltd, Bombay

National Buildings Organisation, New Delhi

Forest Research Institute and Colleges, Dehra Dun

Asian Paints Co (I) Pvt Ltd, Bombay

Central Building Research Institute (CSIR),
Roorkee

Nagrath Paints Pvt Ltd, Kanpur

Central Public Works Department, New Delhi

Imperial Chemical Industries (India) Pvt Ltd,
Calcutta

Director General, ISI (*Ex-officio Member*)

Secretary

SHRI L. RAMACHANDRA RAO

Deputy Director (Civ Engg), ISI



0-001

G

5 Y 9/14

0-008

G
SG

2.5 GY 8/10



0-002

G

2.5 Y 8/12

0-009

G
SG

2.5 GY 7/8



0-003

G

10 YR 7.5/12

0-010

G

5 G 5/7



0-004

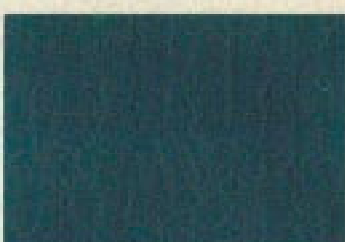
G

2.5 YR 7/12

0-011

G

10 BG 3/6



0-005

G

7.5 R 5/16

0-012

G

2.5 PB 4/10



0-006

G

5 R 3.5/16

0-013

G

2.5 PB 3/8



0-007

G

2.5 R 3.5/12

0-014

G

5 P 3/3



STRONG COLOURS



1-015

G
SG
M
7·5 R 9/2



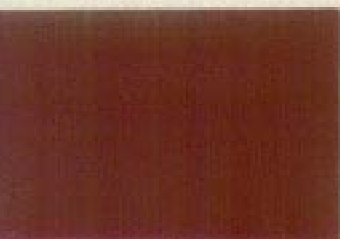
1-016

G
SG
M
5 R 7/2



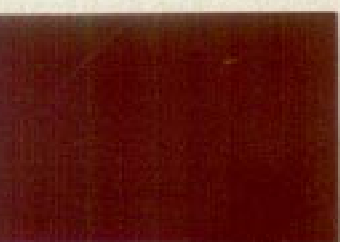
1-017

G
SG
M
5 R 6/2



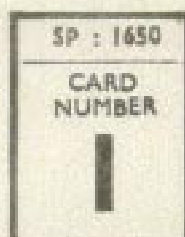
1-018

G
7·5 R 3/4



1-019

G
7·5 R 2/8



1-020

G
SG
M
7·5 R 8/4



1-021

G
SG
5 R 7/8



1-022

G
SG
7·5 R 6/10



1-023

G
SG
7·5 R 5/8



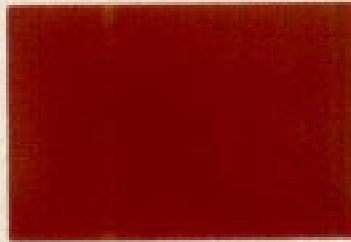
1-024

G
SG
7·5 R 3/12



1-025

G
5·0 R 2.5/12



RED



2-026

G
SG
M
7.5 YR 8.5/4



2-030

G
SG
M
5 YR 8/4



2-027

G
SG
M
7.5 YR 7/2



2-031

G
SG
M
2.5 YR 7/6



2-028

G
SG
M
5 YR 6/3



2-029

G
2.5 YR 4.5/2



2-032

G
SG
2.5 YR 5/5



YELLOW - RED

3-033

G
SG
M
10 YR 9·25/1

3-040

G
SG
M
2·5 Y 9/3

3-034

G
SG
M
10 YR 9/2

3-041

G
SG
M
10 YR 9/6

3-035

G
SG
M
10 YR 8/2

3-042

G
SG
M
2·5 Y 8/4

3-036

G
SG
M
10 YR 6/2

3-043

G
SG
M
10 YR 6·5/5

3-037

G
SG
M
2·5 Y 5/2

3-044

G
SG
5 YR 4/10

3-038

G
10 YR 3/2

3-045

G
7·5 YR 3·5/4

3-039

G
5 YR 1·5/4



YELLOW - RED



4-046

G
SG
M
5 Y 9-25/1



4-052

G
SG
M
5 Y 9-25/4



4-053

G
SG
M
10 Y 9/4



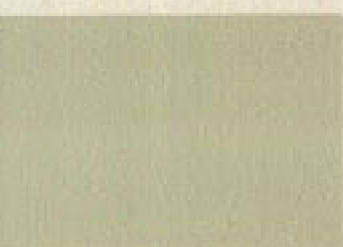
4-047

G
SG
M
5 Y 8/2



4-054

G
SG
M
7-5 Y 9/6



4-048

G
SG
M
5 Y 7/2



4-055

G
SG
M
7-5 Y 9/8



4-049

G
SG
M
5 Y 6/2



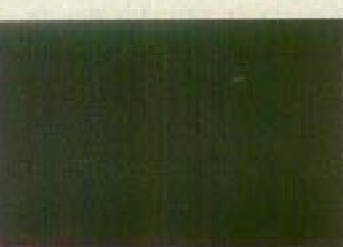
4-050

G
SG
5 Y 4/4



4-056

G
SG
5 Y 7/6



4-051

G
7-5 Y 2/2



4-057

G
2-5 Y 7/10

YELLOW



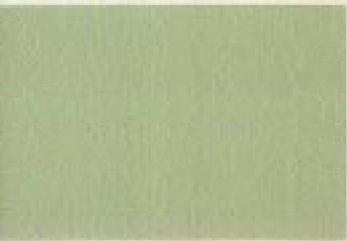
5-058

G
SG
M
10 Y 8/2



5-062

G
SG
M
2.5 GY 8/6



5-059

G
SG
M
2.5 GY 7/2



5-063

G
SG
10 Y 5/6



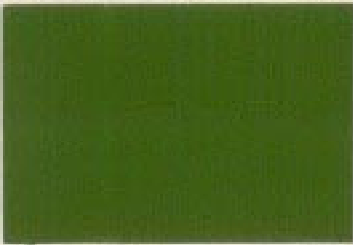
5-060

G
SG
M
2.5 GY 6/2



5-064

G
SG
M
5 GY 5/6



5-065

G
SG
5 GY 4/6



5-061

G
10 GY 3/2

SP : 1650

CARD
NUMBER

5

GREEN - YELLOW

6-069

G
SG
M

10 GY 9/2

6-070

G
SG
M

7.5 GY 9/4

6-066

G
SG
M

2.5 G 6/2

6-071

G
SG
M

7.5 GY 7/4

6-067

G
SG
M

10 GY 5/2

6-072

G

10 GY 6/4

6-073

G

7.5 G 3/4

6-068

G

5 G 2/2



6-074

G

2.5 G 2/4

GREEN



7-075

G
SG
M
5 G 9/2



7-081

G
SG
M
5 B 9/2



7-082

G
SG
M
5 B 8/4



7-076

G
SG
M
5 G 7/1



7-083

G
SG
M
5 B 7/4



7-077

G
SG
M
7.5 BG 6/2



7-084

G
SG
7.5 B 6/6



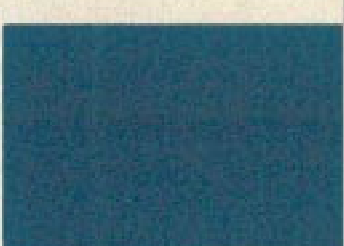
7-078

G
SG
M
5 G 6/1



7-079

G
SG
M
5 BG 7/4



7-085

G
7.5 B 3/4



7-080

G
SG
10 BG 5/4



7-086

G
2.5 PB 2/4

SP : 1650

CARD
NUMBER

7

BLUE - GREEN

BLUE

8-087

G
SG
M
5 PB 8/2

8-090

G
SG
M
10 RP 8/4

8-088

G
SG
2-5 PB 6/4

8-089

G
SG
M
7-5 PB 6/0-5

8-091

G
SG
10 RP 5/8

8-092

G
10 RP 3/8

SP : 1450

CARD
NUMBER

8

PURPLE - BLUE

RED - PURPLE

9-093

G
SG
M
N 9

9-094

G
SG
M
N 8

9-099

G
SG
M
2.5 Y 8/0.5

9-095

G
SG
M
N 7

9-096

G
SG
M
7.5 R 6/0.5

9-100

G
SG
M
2.5 Y 6/0.5

9-097

G
10 B 4/0.5

9-101

G
2.5 Y 4/0.5

9-098

G
7.5 B 2/1



9-102 White

9-103 Black

GREYS